```
     (FILE 'HOME' ENTERED AT 15:38:04 ON 10 MAY 2007)

     FILE 'REGISTRY' ENTERED AT 15:38:22 ON 10 MAY 2007
L1             STRUCTURE UPLOADED
L2           50 S L1
L3             STRUCTURE UPLOADED
L4           50 S L3
L5         6006 S L3 SSS FULL

     FILE 'CAPLUS' ENTERED AT 15:43:27 ON 10 MAY 2007
L6          274 S L5
L7          212 S L5/THU

     FILE 'STNGUIDE' ENTERED AT 15:43:46 ON 10 MAY 2007

     FILE 'HCAPLUS' ENTERED AT 15:45:02 ON 10 MAY 2007
L8          987 S (FINE(W)LINE)
L9         7181 S WRINKLE

     FILE 'STNGUIDE' ENTERED AT 15:45:06 ON 10 MAY 2007

     FILE 'HCAPLUS' ENTERED AT 15:45:21 ON 10 MAY 2007

     FILE 'STNGUIDE' ENTERED AT 15:45:22 ON 10 MAY 2007

     FILE 'CAPLUS' ENTERED AT 15:45:35 ON 10 MAY 2007
L10            0 S L7 AND L8 AND L9
L11            0 S L7 AND L8
L12            0 S L7 AND L9

     FILE 'STNGUIDE' ENTERED AT 15:46:01 ON 10 MAY 2007

     FILE 'CAPLUS' ENTERED AT 15:46:44 ON 10 MAY 2007
L13            0 S L7 AND COSMETIC
L14            0 S L7 AND DERMATOL?

     FILE 'STNGUIDE' ENTERED AT 15:47:10 ON 10 MAY 2007

     FILE 'CAPLUS' ENTERED AT 15:47:16 ON 10 MAY 2007

     FILE 'STNGUIDE' ENTERED AT 15:47:16 ON 10 MAY 2007

     FILE 'HCAPLUS' ENTERED AT 15:48:35 ON 10 MAY 2007
L15          897 S HYPERPIGMENT?
L16         1640 S PHOTODAMAG?
L17       255702 S SKIN

     FILE 'STNGUIDE' ENTERED AT 15:48:41 ON 10 MAY 2007

     FILE 'HCAPLUS' ENTERED AT 15:48:51 ON 10 MAY 2007

     FILE 'CAPLUS' ENTERED AT 15:48:58 ON 10 MAY 2007
L18            0 S L7 AND L15

     FILE 'REGISTRY' ENTERED AT 15:52:12 ON 10 MAY 2007
L19            STRUCTURE UPLOADED
L20          50 S L19
L21            STRUCTURE UPLOADED
L22          50 S L21
L23         1261 S L21 SSS FULL

     FILE 'STNGUIDE' ENTERED AT 15:57:29 ON 10 MAY 2007

     FILE 'HCAPLUS' ENTERED AT 15:58:20 ON 10 MAY 2007
```

```
L24           26 S L22
L25         7730 S DERMATOL?
L26        59068 S COSMETIC
L27          987 S (FINE(W)LINE)
L28         7181 S WRINKLE
L29       255702 S SKIN

     FILE 'STNGUIDE' ENTERED AT 15:58:27 ON 10 MAY 2007

     FILE 'HCAPLUS' ENTERED AT 15:59:08 ON 10 MAY 2007
L30            0 S L24 AND (L25 OR L26 OR L29)
L31            0 S L24 AND (L27 OR L28)

     FILE 'STNGUIDE' ENTERED AT 15:59:11 ON 10 MAY 2007

     FILE 'HCAPLUS' ENTERED AT 15:59:24 ON 10 MAY 2007

     FILE 'STNGUIDE' ENTERED AT 15:59:25 ON 10 MAY 2007

     FILE 'HCAPLUS' ENTERED AT 16:00:52 ON 10 MAY 2007
L32           26 S L24 AND (AY<2004 OR PY<2004 OR PRY<2004)
```

=> file registry
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 0.21 | 0.21

FILE 'REGISTRY' ENTERED AT 15:38:22 ON 10 MAY 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 9 MAY 2007 HIGHEST RN 934521-72-9
DICTIONARY FILE UPDATES: 9 MAY 2007 HIGHEST RN 934521-72-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

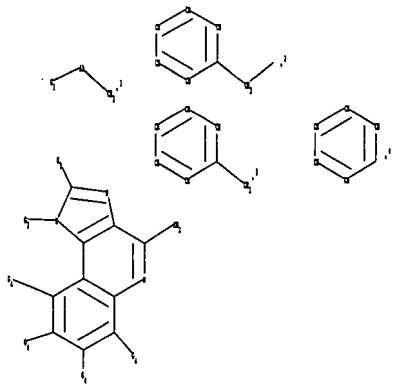
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

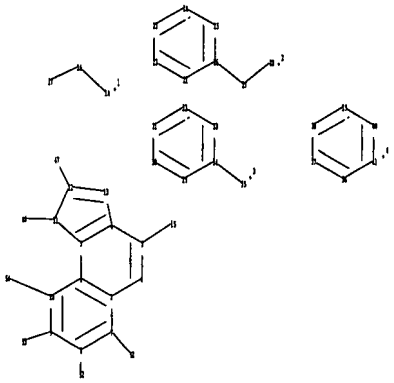
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10627994generic.str

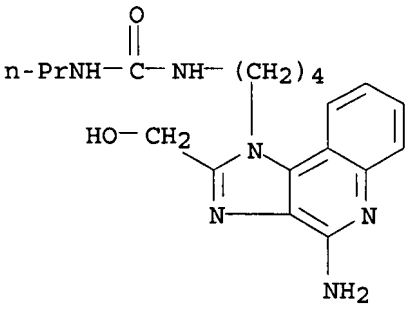




chain nodes :
14 15 16 17 27 28 35 46 47 51 52 53 54
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 21 22 23 24 25 26 29 30 31 32
33 34 36 37 38 39 40 41
chain bonds :
5-15 7-51 8-52 9-53 10-54 11-46 12-47 14-16 16-17 26-27 27-28 34-35
ring bonds :
1-2 1-6 1-7 2-3 2-10 3-4 3-11 4-5 4-13 5-6 7-8 8-9 9-10 11-12 12-13
21-22 21-26 22-23 23-24 24-25 25-26 29-30 29-34 30-31 31-32 32-33 33-34
36-37 36-41
37-38 38-39 39-40 40-41
exact/norm bonds :
3-11 4-13 5-15 7-51 8-52 9-53 10-54 11-12 11-46 12-13 12-47 14-16 16-17

exact bonds :
26-27 27-28 34-35
normalized bonds :
1-2 1-6 1-7 2-3 2-10 3-4 4-5 5-6 7-8 8-9 9-10 21-22 21-26 22-23 23-24
24-25 25-26 29-30 29-34 30-31 31-32 32-33 33-34 36-37 36-41 37-38 38-39
39-40 40-41

```
G1:H,O

G2:Ak,[*1],[*2],[*3],[*4]

G3:Ak,[*2],[*3],[*4]

G4:C,H,O

Connectivity :
16:2 M minimum RC ring/chain
Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
11:Atom  12:Atom  13:Atom  14:CLASS  15:CLASS  16:CLASS  17:CLASS  21:Atom  22:Atom
 23:Atom  24:Atom
25:Atom  26:Atom  27:CLASS  28:CLASS  29:Atom  30:Atom  31:Atom  32:Atom  33:Atom
34:Atom  35:CLASS
36:Atom  37:Atom  38:Atom  39:Atom  40:Atom  41:Atom  46:CLASS  47:CLASS  51:CLASS
52:CLASS
53:CLASS  54:CLASS
Generic attributes :
16:
Saturation              : Saturated



L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=> s l1
SAMPLE SEARCH INITIATED 15:38:43 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      540 TO ITERATE

100.0% PROCESSED      540 ITERATIONS                                  50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          9406 TO    12194
PROJECTED ANSWERS:             5108 TO     7212

L2           50 SEA SSS SAM L1

=> d l2 scan

L2   50 ANSWERS   REGISTRY  COPYRIGHT 2007 ACS on STN
IN   Urea, N-[4-[4-amino-2-(hydroxymethyl)-1H-imidazo[4,5-c]quinolin-1-
     yl]butyl]-N'-propyl- (9CI)
MF   C19 H26 N6 O2
CI   COM
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> log hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	0.66

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 15:39:08 ON 10 MAY 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAEXO1623

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 15:42:09 ON 10 MAY 2007
FILE 'REGISTRY' ENTERED AT 15:42:09 ON 10 MAY 2007
COPYRIGHT (C) 2007 American Chemical Society (ACS)s

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	0.66

=>
Uploading
SUPLOAD IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

C:\Program Files\Stnexp\Queries\10627994generic2.str

L3 STRUCTURE UPLOADED

=> s l3
SAMPLE SEARCH INITIATED 15:42:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 540 TO ITERATE

100.0% PROCESSED 540 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

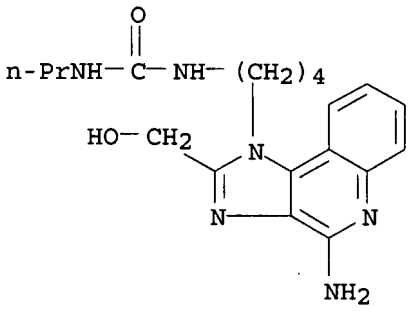
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 9406 TO 12194
PROJECTED ANSWERS: 5108 TO 7212

L4 50 SEA SSS SAM L3

=> d l4 scan

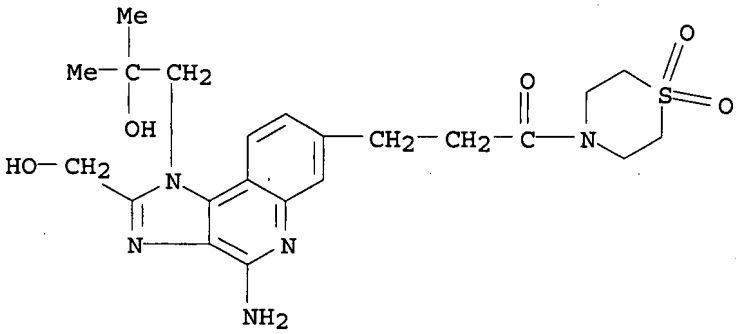
L4 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Urea, N-[4-[4-amino-2-(hydroxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl]butyl]-N'-propyl- (9CI)
MF C19 H26 N6 O2
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

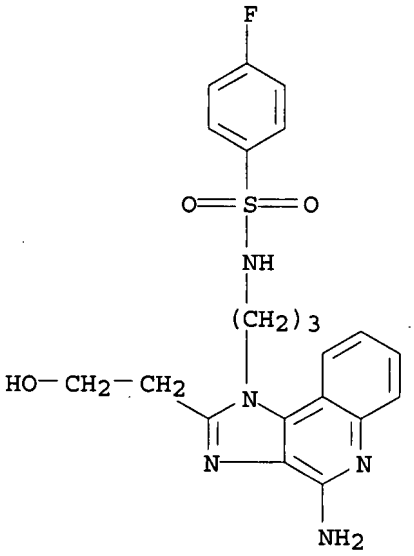
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L4 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Thiomorpholine, 4-[3-[4-amino-2-(hydroxymethyl)-1-(2-hydroxy-2-methylpropyl)-1H-imidazo[4,5-c]quinolin-7-yl]-1-oxopropyl]-, 1,1-dioxide (9CI)
MF C22 H29 N5 O5 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

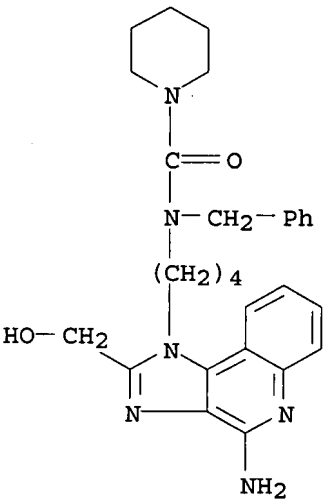
L4 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzenesulfonamide, N-[3-[4-amino-2-(2-hydroxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]propyl]-4-fluoro- (9CI)
MF C21 H22 F N5 O3 S
CI COM



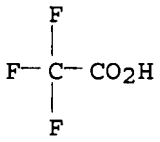
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1-Piperidinecarboxamide, N-[4-[4-amino-2-(hydroxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl]butyl]-N-(phenylmethyl)-, trifluoroacetate (salt) (9CI)
MF C28 H34 N6 O2 . x C2 H F3 O2

CM 1



CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l3 sss full
FULL SEARCH INITIATED 15:43:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 11198 TO ITERATE

100.0% PROCESSED 11198 ITERATIONS 6006 ANSWERS
SEARCH TIME: 00.00.01

L5 6006 SEA SSS FUL L3

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 173.00 173.21

FILE 'CAPLUS' ENTERED AT 15:43:27 ON 10 MAY 2007
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FILE LAST UPDATED: 9 May 2007 (20070509/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l5
L6 274 L5

=> s l5/thu
274 L5
887376 THU/RL
L7 212 L5/THU
(L5 (L) THU/RL)

=> file stnguide

```
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         2.48     175.69

FILE 'STNGUIDE' ENTERED AT 15:43:46 ON 10 MAY 2007
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May  4, 2007 (20070504/UP).

=> file hcaplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.12     175.81

FILE 'HCAPLUS' ENTERED AT 15:45:02 ON 10 MAY 2007
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FILE LAST UPDATED: 1 May 2007  (20070501/ED)

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 This file contains CAS Registry Numbers for easy and accurate

=> s (fine(w)line)

        312423 FINE
        688113 LINE
L8         987 (FINE(W)LINE)

=> s wrinkle

L9        7181 WRINKLE

=> s L7 and L8 and L9

COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> file stnguide

COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         2.60     178.41

FILE 'STNGUIDE' ENTERED AT 15:45:06 ON 10 MAY 2007
```

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May 4, 2007 (20070504/UP).

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	178.47

FILE 'HCAPLUS' ENTERED AT 15:45:21 ON 10 MAY 2007
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This file contains CAS Registry Numbers for easy and accurate

=> s L7 and L8 and L9

COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	181.07

FILE 'STNGUIDE' ENTERED AT 15:45:22 ON 10 MAY 2007
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May 4, 2007 (20070504/UP).

<------User Break------>

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	181.13

FILE 'CAPLUS' ENTERED AT 15:45:35 ON 10 MAY 2007

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FILE LAST UPDATED: 9 May 2007 (20070509/ED)

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http://www.cas.org/infopolicy.html

```
=> s L7 and L8 and L9
        312423 FINE
        688113 LINE
           987 (FINE(W)LINE)
          7181 WRINKLE
L10          0 L7 AND L8 AND L9

=> s L7 and L8
        312423 FINE
        688113 LINE
           987 (FINE(W)LINE)
L11          0 L7 AND L8

=> s L7 and L9
          7181 WRINKLE
L12          0 L7 AND L9

=> file stnguide
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                12.53     193.66

FILE 'STNGUIDE' ENTERED AT 15:46:01 ON 10 MAY 2007
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May  4, 2007 (20070504/UP).

=> d his

     (FILE 'HOME' ENTERED AT 15:38:04 ON 10 MAY 2007)

     FILE 'REGISTRY' ENTERED AT 15:38:22 ON 10 MAY 2007
L1             STRUCTURE UPLOADED
L2            50 S L1
L3             STRUCTURE UPLOADED
L4            50 S L3
L5          6006 S L3 SSS FULL
```

```
     FILE 'CAPLUS' ENTERED AT 15:43:27 ON 10 MAY 2007
L6            274 S L5
L7            212 S L5/THU

     FILE 'STNGUIDE' ENTERED AT 15:43:46 ON 10 MAY 2007

     FILE 'HCAPLUS' ENTERED AT 15:45:02 ON 10 MAY 2007
L8            987 S (FINE(W)LINE)
L9           7181 S WRINKLE

     FILE 'STNGUIDE' ENTERED AT 15:45:06 ON 10 MAY 2007

     FILE 'HCAPLUS' ENTERED AT 15:45:21 ON 10 MAY 2007

     FILE 'STNGUIDE' ENTERED AT 15:45:22 ON 10 MAY 2007

     FILE 'CAPLUS' ENTERED AT 15:45:35 ON 10 MAY 2007
L10             0 S L7 AND L8 AND L9
L11             0 S L7 AND L8
L12             0 S L7 AND L9

     FILE 'STNGUIDE' ENTERED AT 15:46:01 ON 10 MAY 2007

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.06     193.72

FILE 'CAPLUS' ENTERED AT 15:46:44 ON 10 MAY 2007
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http://www.cas.org/infopolicy.html

=> s l7 and cosmetic
         59068 COSMETIC
L13          0 L7 AND COSMETIC

=> s l7 and dermatol?
          7730 DERMATOL?
L14          0 L7 AND DERMATOL?

=> file stnguide
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 4.49     198.21
```

FILE 'STNGUIDE' ENTERED AT 15:47:10 ON 10 MAY 2007
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May 4, 2007 (20070504/UP).

=> d l7 1-10 ti
YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y

L7 ANSWER 1 OF 212 CAPLUS COPYRIGHT 2007 ACS on STN
TI Sulfonylpyrrole hydrochloride salts as histone deacetylases inhibitors and their preparation, pharmaceutical compositions and use in the treatment of diseases

L7 ANSWER 2 OF 212 CAPLUS COPYRIGHT 2007 ACS on STN
TI Novel sulfonylpyrroles as inhibitors of HDAC and their preparation, pharmaceutical compositions and use in the treatment of diseases

L7 ANSWER 3 OF 212 CAPLUS COPYRIGHT 2007 ACS on STN
TI Pharmaceutical formulations of cyclodextrins and antifungal azole compounds

L7 ANSWER 4 OF 212 CAPLUS COPYRIGHT 2007 ACS on STN
TI Modulation of TLR-mediated immune responses using adaptor oligonucleotides

L7 ANSWER 5 OF 212 CAPLUS COPYRIGHT 2007 ACS on STN
TI IL-21 and Toll-like receptor agonist for generating granzyme B-secreting cytotoxic B cells for treatment of B cell-associated cancer, infection, autoimmune and immune disease

L7 ANSWER 6 OF 212 CAPLUS COPYRIGHT 2007 ACS on STN
TI Adjunctive immunotherapy of mycobacterial infections

L7 ANSWER 7 OF 212 CAPLUS COPYRIGHT 2007 ACS on STN
TI Combinations containing IKK-β inhibitors for the treatment of inflammatory skin diseases or skin cancers

L7 ANSWER 8 OF 212 CAPLUS COPYRIGHT 2007 ACS on STN
TI Phenols and benzenediols for the sensitization of immune system against haptenized melanoma antigens

L7 ANSWER 9 OF 212 CAPLUS COPYRIGHT 2007 ACS on STN
TI Administration of a dual toll-like receptor 7 and toll-like receptor 8 agonist protects against influenza in rats

L7 ANSWER 10 OF 212 CAPLUS COPYRIGHT 2007 ACS on STN
TI Novel tetrahydropyridothiophenes and their preparation, pharmaceutical compositions and use in the treatment of hyperproliferative diseases

<------User Break------>

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.12	202.26

FILE 'HCAPLUS' ENTERED AT 15:48:35 ON 10 MAY 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 10 May 2007 VOL ISS ISS
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FILE LAST UPDATED: 1 May 2007 (20070501/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate

=> s hyperpigment?

L15 897 HYPERPIGMENT?

=> s photodamag?

L16 1640 PHOTODAMAG?

=> s skin

L17 255702 SKIN

=> s L7 and L15

COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help Desk by telephone or via SEND in the STNMAIL file.

=> s L7 and L16

COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help Desk by telephone or via SEND in the STNMAIL file.

=> s L7 and L17

COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help Desk by telephone or via SEND in the STNMAIL file.

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	204.86

FILE 'STNGUIDE' ENTERED AT 15:48:41 ON 10 MAY 2007

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May 4, 2007 (20070504/UP).

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	204.92

FILE 'HCAPLUS' ENTERED AT 15:48:51 ON 10 MAY 2007
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=> s L7 and L15
COMMAND INTERRUPTED
If this message appears repeatedly, please notify the Help Desk.
Enter "HELP STN" for information on contacting the nearest STN Help
Desk by telephone or via SEND in the STNMAIL file.

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	207.52

FILE 'CAPLUS' ENTERED AT 15:48:58 ON 10 MAY 2007
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FILE COVERS 1907 - 10 May 2007 VOL 146 ISS 20
FILE LAST UPDATED: 9 May 2007 (20070509/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

```
=> s L7 and L15
            897 HYPERPIGMENT?
L18           0 L7 AND L15

=> log hold
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   2.48     210.00

 SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 15:49:09 ON 10 MAY 2007

Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:SSPTAEXO1623

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 15:52:05 ON 10 MAY 2007
FILE 'CAPLUS' ENTERED AT 15:52:05 ON 10 MAY 2007
COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)f

COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   2.48     210.00

=> file registry
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   2.48     210.00

FILE 'REGISTRY' ENTERED AT 15:52:12 ON 10 MAY 2007
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:    9 MAY 2007  HIGHEST RN 934521-72-9
DICTIONARY FILE UPDATES:   9 MAY 2007  HIGHEST RN 934521-72-9

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TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html
```
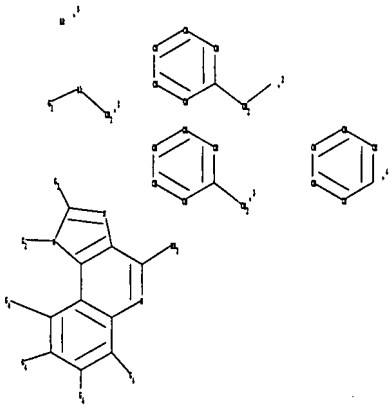
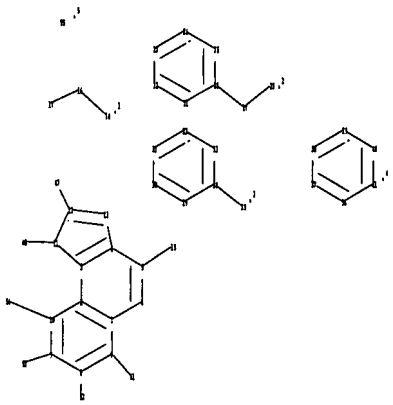

=>
Uploading C:\Program Files\Stnexp\Queries\10627994generic3.str



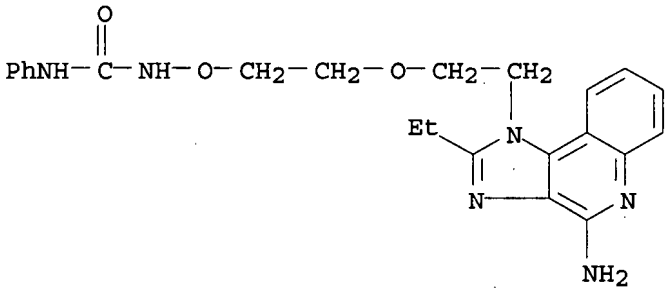


chain nodes :
14 15 16 17 27 28 35 46 47 51 52 53 54 55
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 21 22 23 24 25 26 29 30 31 32
33 34 36 37 38 39 40 41
chain bonds :
5-15 7-51 8-52 9-53 10-54 11-46 12-47 14-16 16-17 26-27 27-28 34-35
ring bonds :
1-2 1-6 1-7 2-3 2-10 3-4 3-11 4-5 4-13 5-6 7-8 8-9 9-10 11-12 12-13
21-22 21-26 22-23 23-24 24-25 25-26 29-30 29-34 30-31 31-32 32-33 33-34
36-37 36-41
37-38 38-39 39-40 40-41
exact/norm bonds :
3-11 4-13 5-15 7-51 8-52 9-53 10-54 11-12 11-46 12-13 12-47 14-16 16-17

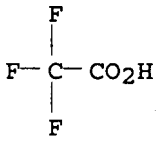
exact bonds :
26-27 27-28 34-35
normalized bonds :
1-2 1-6 1-7 2-3 2-10 3-4 4-5 5-6 7-8 8-9 9-10 21-22 21-26 22-23 23-24

```
24-25  25-26  29-30  29-34  30-31  31-32  32-33  33-34  36-37  36-41  37-38  38-39
39-40  40-41


G1:H,O

G2:[*1],[*2],[*3],[*4],[*5]

G3:[*2],[*3],[*4],[*5]

G4:C,H,O

Connectivity :
16:2 X maximum RC ring/chain  55:1 E exact RC ring/chain
Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
11:Atom  12:Atom  13:Atom  14:CLASS  15:CLASS  16:CLASS  17:CLASS  21:Atom  22:Atom
 23:Atom  24:Atom
25:Atom  26:Atom  27:CLASS  28:CLASS  29:Atom  30:Atom  31:Atom  32:Atom  33:Atom
34:Atom  35:CLASS
36:Atom  37:Atom  38:Atom  39:Atom  40:Atom  41:Atom  46:CLASS  47:CLASS  51:CLASS
52:CLASS
53:CLASS  54:CLASS  55:CLASS
Generic attributes :
16:
Saturation              : Saturated



L19     STRUCTURE UPLOADED

=> d l19
L19 HAS NO ANSWERS
L19             STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.


=> s l19
SAMPLE SEARCH INITIATED 15:52:35 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      540 TO ITERATE

100.0% PROCESSED      540 ITERATIONS                          50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         9406 TO    12194
PROJECTED ANSWERS:            1198 TO     2322

L20          50 SEA SSS SAM L19

=> d l20 scan

L20  50 ANSWERS   REGISTRY  COPYRIGHT 2007 ACS on STN
IN   Urea, N-[2-[2-(4-amino-2-ethyl-1H-imidazo[4,5-c]quinolin-1-
     yl)ethoxy]ethoxy]-N'-phenyl-, trifluoroacetate (9CI)
MF   C23 H26 N6 O3 . x C2 H F3 O2
```

CM 1

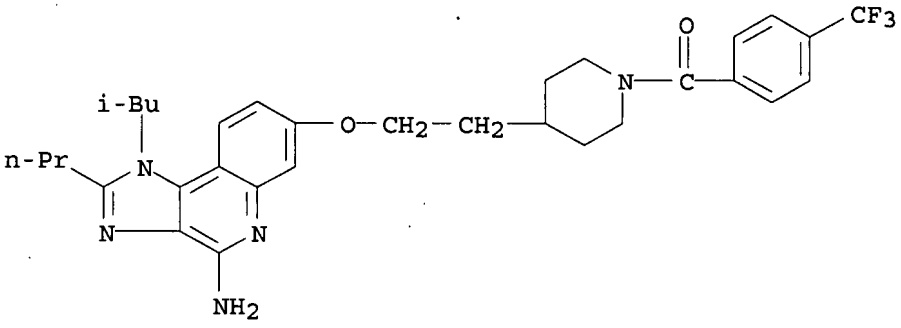


CM 2



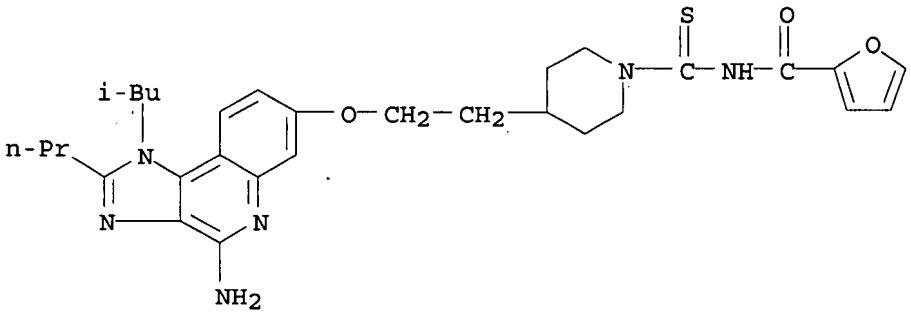
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L20 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Piperidine, 4-[2-[[4-amino-1-(2-methylpropyl)-2-propyl-1H-imidazo[4,5-c]quinolin-7-yl]oxy]ethyl]-1-[4-(trifluoromethyl)benzoyl]- (9CI)
MF C32 H38 F3 N5 O2
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

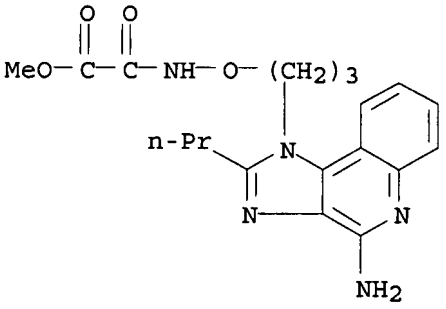
L20 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Furancarboxamide, N-[[4-[2-[[4-amino-1-(2-methylpropyl)-2-propyl-1H-imidazo[4,5-c]quinolin-7-yl]oxy]ethyl]-1-piperidinyl]thioxomethyl]- (9CI)
MF C30 H38 N6 O3 S
CI COM



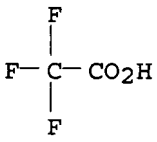
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L20 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Acetic acid, [[3-(4-amino-2-propyl-1H-imidazo[4,5-c]quinolin-1-yl)propoxy]amino]oxo-, methyl ester, trifluoroacetate (9CI)
MF C19 H23 N5 O4 . x C2 H F3 O2

CM 1



CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> log hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.90	210.90

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 15:53:16 ON 10 MAY 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSPTAEXO1623

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 15:56:03 ON 10 MAY 2007
FILE 'REGISTRY' ENTERED AT 15:56:03 ON 10 MAY 2007
COPYRIGHT (C) 2007 American Chemical Society (ACS)s

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.90	210.90

=>
Uploading
SUPLOAD IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

C:\Program Files\Stnexp\Queries\10627994generic4.str

L21 STRUCTURE UPLOADED

=> s l21
SAMPLE SEARCH INITIATED 15:56:27 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 540 TO ITERATE

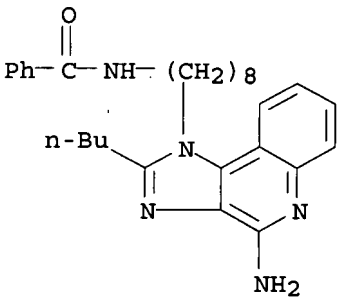
100.0% PROCESSED 540 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:	ONLINE	**COMPLETE**
	BATCH	**COMPLETE**
PROJECTED ITERATIONS:	9406 TO	12194
PROJECTED ANSWERS:	720 TO	1640

L22 50 SEA SSS SAM L21

=> d l22 scan

L22 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, N-[8-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)octyl]-(9CI)
MF C29 H37 N5 O

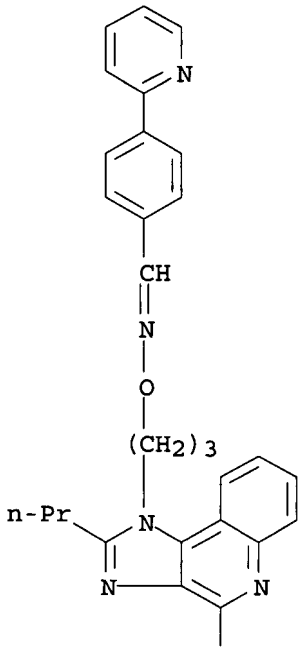


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):4

L22 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzaldehyde, 4-(2-pyridinyl)-, O-[3-(4-amino-2-propyl-1H-imidazo[4,5-c]quinolin-1-yl)propyl]oxime (9CI)
MF C28 H28 N6 O
CI COM

PAGE 1-A



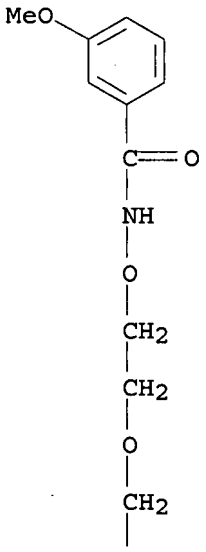
PAGE 2-A

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

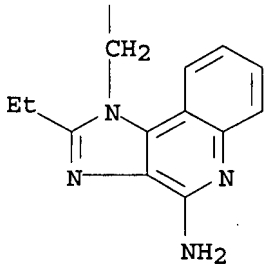
L22 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, N-[2-[2-(4-amino-2-ethyl-1H-imidazo[4,5-c]quinolin-1-yl)ethoxy]ethoxy]-3-methoxy-, trifluoroacetate (9CI)
MF C24 H27 N5 O4 . x C2 H F3 O2

CM 1

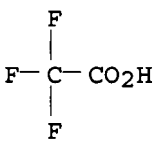
PAGE 1-A



PAGE 2-A

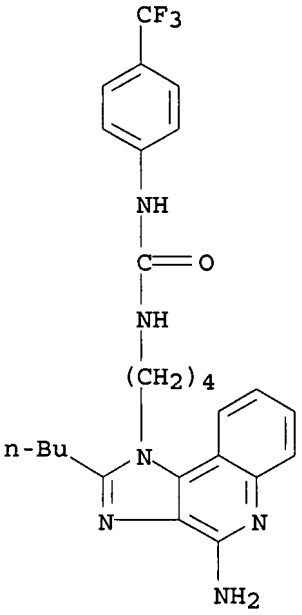


CM 2

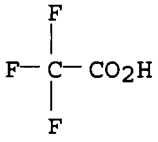


L22 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Urea, N-[4-(4-amino-2-butyl-1H-imidazo[4,5-c]quinolin-1-yl)butyl]-N'-[4-(trifluoromethyl)phenyl]-, mono(trifluoroacetate) (9CI)
MF C26 H29 F3 N6 O . C2 H F3 O2

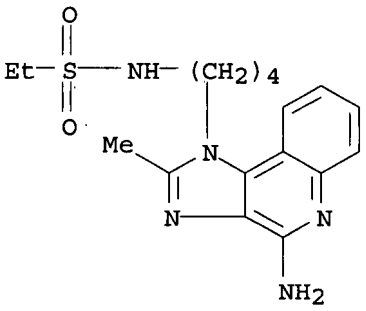
CM 1



CM 2



L22 50 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Ethanesulfonamide, N-[4-(4-amino-2-methyl-1H-imidazo[4,5-c]quinolin-1-yl)butyl]- (9CI)
MF C17 H23 N5 O2 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

```
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l21 sss full
FULL SEARCH INITIATED 15:57:20 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    11198 TO ITERATE

100.0% PROCESSED    11198 ITERATIONS                          1261 ANSWERS
SEARCH TIME: 00.00.01

L23         1261 SEA SSS FUL L21

=> file stnguide
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                             173.45     383.45

FILE 'STNGUIDE' ENTERED AT 15:57:29 ON 10 MAY 2007
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May  4, 2007 (20070504/UP).

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               0.06     383.51

FILE 'HCAPLUS' ENTERED AT 15:58:20 ON 10 MAY 2007
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FILE LAST UPDATED: 1 May 2007  (20070501/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate

=> s L22

L24          26 L22

=> s dermatol?

L25        7730 DERMATOL?

=> s cosmetic

L26       59068 COSMETIC
```

```
=> s (fine(w)line)

        312423 FINE
        688113 LINE
L27        987 (FINE(W)LINE)

=> s wrinkle

L28       7181 WRINKLE

=> s skin

L29     255702 SKIN

=> file stnguide

COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       2.60     386.11

FILE 'STNGUIDE' ENTERED AT 15:58:27 ON 10 MAY 2007
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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May  4, 2007 (20070504/UP).

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.06     386.17

FILE 'HCAPLUS' ENTERED AT 15:59:08 ON 10 MAY 2007
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FILE COVERS 1907 - 10 May 2007  VOL 146 ISS 20
FILE LAST UPDATED: 1 May 2007  (20070501/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate

=> s L24 and (L25 or L26 or L29)

L30           0 L24 AND (L25 OR L26 OR L29)

=> s L24 and (L27 or L28)

L31           0 L24 AND (L27 OR L28)
```

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.60	388.77

FILE 'STNGUIDE' ENTERED AT 15:59:11 ON 10 MAY 2007

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: May 4, 2007 (20070504/UP).

=> d l24 1-26 ti
YOU HAVE REQUESTED DATA FROM FILE 'HCAPLUS' - CONTINUE? (Y)/N:y

L24 ANSWER 1 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of hydroxylamine and oxime substituted imidazoquinolines, imidazopyridines, and imidazonaphthyridines as inducers of cytokine biosynthesis for treatment of viral and neoplastic diseases

L24 ANSWER 2 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of hydroxylamine substituted imidazo-containing compounds as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease

L24 ANSWER 3 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of oxime substituted imidazo-containing compounds as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease

L24 ANSWER 4 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Compositions for encapsulation and controlled release prepared by matrix crosslinking with multivalent cations

L24 ANSWER 5 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of sulfonamide substituted imidazoquinolines as immunomodulators

L24 ANSWER 6 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of sulfonamide substituted imidazoquinolines as immunomodulators

L24 ANSWER 7 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Delivery of immune response modifier compounds

L24 ANSWER 8 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Delivery of immune response modifier compounds using metal-containing particulate support materials

L24 ANSWER 9 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Selective activation of cellular activities mediated through a common TOLL-like receptor

L24 ANSWER 10 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Methods and compositions related to IRM compounds and toll-like receptor 8

L24 ANSWER 11 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of aryl/heteroaryl substituted imidazoquinolines as immunomodulators

L24 ANSWER 12 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of imidazoquinolinesulfonamides as inducers of cytokine biosynthesis.

L24 ANSWER 13 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of aryl ether substituted imidazoquinolines as immune response modifiers

L24 ANSWER 14 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of amido ether substituted imidazoquinolines as immune response modifiers

L24 ANSWER 15 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of amidoimidazo[4,5-c]quinolines as immune response modifiers

L24 ANSWER 16 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of sulfonamidoalkoxyalkylimidazoquinolines as immune response modulators.

L24 ANSWER 17 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of 4-amino-1-(ureidoethoxyethyl)imidazoquinolines as inducers of cytokine biosynthesis for treatment of viral and neoplastic disease.

L24 ANSWER 18 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of imidazoquinolinamines as immune response modifiers.

L24' ANSWER 19 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Toll-like receptor (TLR) pathway-based methods for identification of immune response modifier (IRM) compounds, and methods of use of such compounds

L24 ANSWER 20 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of thioether substituted imidazoquinolinamines as cytokine biosynthesis inducers for treatment of viral and neoplastic disease.

L24 ANSWER 21 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of 1-(alkyl- or arylthioalkyl) imidazo[4,5-c]quinoline-4-amines and analogs as cytokine biosynthesis inducers

L24 ANSWER 22 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of urea substituted imidazoquinoline ethers as immune response modifiers

L24 ANSWER 23 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of sulfonamido ether substituted imidazoquinolines as immune response modifiers

L24 ANSWER 24 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of aryl ether substituted imidazoquinolines as immune response modifiers

L24 ANSWER 25 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of amido ether substituted imidazoquinolines as immune response modifiers

L24 ANSWER 26 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of urea substituted imidazoquinolines as immune response modifiers

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.12	400.39

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FILE LAST UPDATED: 1 May 2007  (20070501/ED)

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=> file stnguide

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FULL ESTIMATED COST                                   2.60     402.99

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LAST RELOADED: May  4, 2007 (20070504/UP).

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L24  ANSWER 5 OF 26  HCAPLUS  COPYRIGHT 2007 ACS on STN
TI   Preparation of sulfonamide substituted imidazoquinolines as
     immunomodulators
GI
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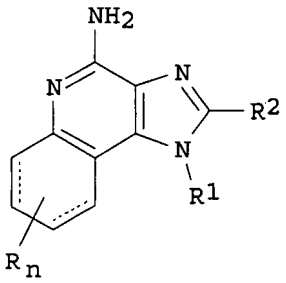

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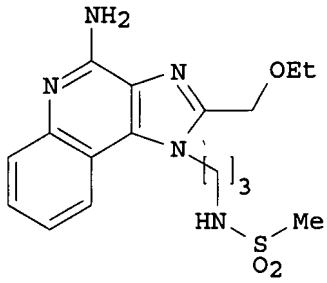

II

AB The title imidazoquinoline and tetrahydroimidazoquinoline compds. I [R1 = alkyl-NR3-SO2-X-R4, alkenyl-NR3-SO2-X-R4, alkyl-NR6-SO2-R7; X = a bond, NR5; R4 = (un)substituted aryl, heteroaryl, heterocyclyl, alkyl, alkenyl; R2 = H, alkyl, alkenyl, aryl, etc.; R3 = H, alkyl; R5 = H, alkyl; or R4 and R5 can combine to form (un)substituted 3-7 membered heterocyclic ring; R6 = H, alkyl; R7 = H, alkyl; R6 and R7 combine to form (un)substituted heterocyclic ring; n = 0-4; R = alkyl, alkoxy, halo, CF3] that contain sulfonamide functionality at the 1-position are useful as immune response modifiers. Thus, reacting 1-(3-aminopropyl)-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-4-amine with methanesulfonic anhydride in the presence of Et3N in MeCN afforded II. The title compds. I were tested for interferon α and TNFα induction in human cells (data given for over 30 compds.). The compds. and compns. of the invention can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

AN 2005:29289 HCAPLUS <<LOGINID::20070510>>
DN 142:134599

TI Preparation of sulfonamide substituted imidazoquinolines as immunomodulators

IN Griesgraber, George W.
PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005003065	A2	20050113	WO 2004-US20607	20040625
	WO 2005003065	A3	20050310		
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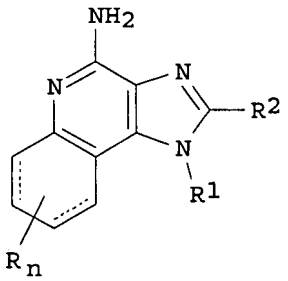
	AU 2004253929	A1	20050113	AU 2004-253929	20040625
	CA 2529322	A1	20050113	CA 2004-2529322	20040625
	EP 1638566	A2	20060329	EP 2004-756208	20040625
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
	CN 1812789	A	20060802	CN 2004-80018145	20040625
	BR 2004011916	A	20060815	BR 2004-11916	20040625
PRAI	US 2003-483200P	P	20030627		
	WO 2004-US20607	W	20040625		

OS MARPAT 142:134599

L24 ANSWER 6 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of sulfonamide substituted imidazoquinolines as immunomodulators
GI



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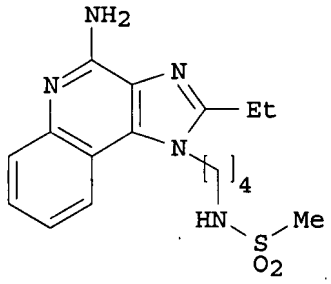

II

AB The title 1-imidazoquinoline and tetrahydroimidazoquinoline compds. I [R1 = alkyl-NR3-SO2-X-R4, alkenyl-NR3-SO2-X-R4, alkyl-NR6-SO2-R7; X = a bond, NR5; R4 = (un)substituted aryl, heteroaryl, heterocyclyl, alkyl, alkenyl; R2 = H, alkyl, alkenyl, aryl, etc.; R3 = H, alkyl; R5 = H, alkyl; or R4 and R5 can combine to form (un)substituted 3-7 membered heterocyclic ring; R6 = H, alkyl; R7 = H, alkyl; R6 and R7 combine to form (un)substituted heterocyclic ring; n = 0-4; R = alkyl, alkoxy, halo, CF3] that contain sulfonamide functionality at the 1-position are useful as immune response modifiers. E.g., a multi-step synthesis of II, starting from tert-Bu 4-(2-ethyl-1H-imidazo[4,5-c]quinolin-1-yl)butylcarbamate, was given. The title compds. I were tested for interferon α and TNFα induction in human cells (data given for over 30 compds.). The compds. and compns. of the invention can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

AN 2005:29288 HCAPLUS <<LOGINID::20070510>>
DN 142:114068
TI Preparation of sulfonamide substituted imidazoquinolines as immunomodulators
IN Lindstrom, Kyle J.
PA 3M Innovative Properties Company, USA
SO PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005003064	A2	20050113	WO 2004-US20606	20040625
	WO 2005003064	A3	20050331		

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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,

SN, TD, TG
PRAI US 2003-483200P P 20030627
OS MARPAT 142:114068

L24 ANSWER 9 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Selective activation of cellular activities mediated through a common TOLL-like receptor
AB Methods of identifying compds. that selectively modulate cellular activities mediated by a common TLR are provided. Generally, the methods include providing an assay to detect modulation of a first cellular activity mediated by a TLR; providing an assay to detect modulation of a second cellular activity mediated by the TLR; performing each assay using a test compound; and identifying the test compound as a compound that selectively modulates at least one cellular activity of a plurality of activities mediated by a common TLR if the test compound modulates the first cellular activity to a different extent than it modulates the second TLR-mediated cellular activity. Compds. identified by such methods, pharmaceutical compns. including such compds., and methods of treating a condition by administering such pharmaceutical compns. to a subject are also provided.
AN 2004:802451 HCAPLUS <<LOGINID::20070510>>
DN 141:289086
TI Selective activation of cellular activities mediated through a common TOLL-like receptor
IN Fink, Jason R.; Gupta, Shalley K.
PA 3M Innovative Properties Company, USA
SO U.S. Pat. Appl. Publ., 14 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004191833	A1	20040930	US 2004-807934	20040324
	WO 2004087049	A2	20041014	WO 2004-US8979	20040324
	WO 2004087049	A3	20041229		
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	EP 1613956	A2	20060111	EP 2004-758260	20040324
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	JP 2006523452	T	20061019	JP 2006-507525	20040324
PRAI	US 2003-457336P	P	20030325		
	WO 2004-US8979	W	20040324		

L24 ANSWER 10 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Methods and compositions related to IRM compounds and toll-like receptor 8
AB Methods of eliciting a toll-like receptor 8 (TLR8)-mediated cellular response are disclosed. Such methods include administration of either a TLR8 agonist or a TLR8 antagonist to an IRM (immune response modifier)-responsive cell so that the IRM compound affects at least one TLR8-mediate cellular signaling pathway. In some cases, the method may provide prophylactic or therapeutic treatment for a condition treatable by modulating a TLR8-mediated cellular pathway.
AN 2004:681403 HCAPLUS <<LOGINID::20070510>>

DN 141:185096
TI Methods and compositions related to IRM compounds and toll-like receptor 8
IN Gorden, Keith B.; Qiu, Xiaohong; Vasilakos, John P.
PA 3M Innovative Properties Company, USA
SO U.S. Pat. Appl. Publ., 25 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004162309	A1	20040819	US 2004-777310	20040212
WO 2004071459	A2	20040826	WO 2004-US4353	20040212
WO 2004071459	A3	20050127		
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EP 1592302	A2	20051109	EP 2004-710701	20040212
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JP 2006517974	T	20060803	JP 2006-503575	20040212
PRAI US 2003-447179P	P	20030213		
WO 2004-US4353	W	20040212		

L24 ANSWER 11 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of aryl/heteroaryl substituted imidazoquinolines as immunomodulators
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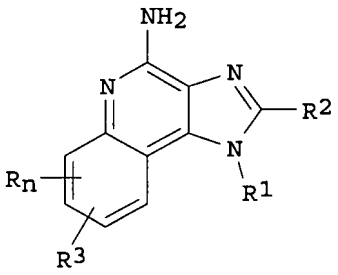

I

AB Title compds. I (R = alkyl, alkoxy, OH, CF3; n = 0, 1; R1, R2 = H, non-interfering substituent; R3 = ArZ, aminosulfonylaryl, aminocarbonylaryl, etc.; Ar = aryl, heteroaryl; Z = bond, alkylene, alkenylene, alkynylene) which are immunomodulators, inducing cytokines biosynthesis, and inhibiting tumor necrosis factors biosynthesis, are prepared For example, 2-butyl-1-isobutyl-7-(thiophen-3-yl)-1H-imidazo[4,5-c]quinolin-4-amine was prepared in a multi-step synthesis starting from 3-bromoaniline, tri-Et orthoformate, and Meldrum's acid. I are useful in the treatment of viral and neoplastic diseases.
AN 2004:566606 HCAPLUS <<LOGINID::20070510>>
DN 141:123628
TI Preparation of aryl/heteroaryl substituted imidazoquinolines as immunomodulators
IN Hays, David S.; Niwas, Shri; Kshirsagar, Tushar; Ghosh, Tarun K.; Gupta, Shalley K.; Heppner, Philip D.; Merrill, Bryon A.; Bonk, Jason D.;

Danielson, Michael E.; Gerster, John F.; Haraldson, Chad A.; Johannessen, Sarah C.; Kavanagh, Maureen A.; Lindstrom, Kyle J.; Prince, Ryan B.; Radmer, Matthew R.; Rice, Michael J.; Squire, David J.; Strong, Sarah A.; Wurst, Joshua R.

PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 465 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	WO 2004058759	A8	20050317		
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	AU 2003301052	A1	20040722	AU 2003-301052	20031218
	US 2004147543	A1	20040729	US 2003-739787	20031218
	US 7091214	B2	20060815		
	EP 1590348	A1	20051102	EP 2003-814164	20031218
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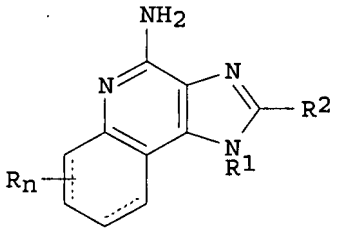
	CN 1747953	A	20060315	CN 2003-80109659	20031218
	JP 2006513212	T	20060420	JP 2004-563764	20031218
	US 2006111387	A1	20060525	US 2006-275553	20060113
PRAI	US 2002-435889P	P	20021220		
	US 2003-516331P	P	20031031		
	US 2003-739787	A3	20031218		
	WO 2003-US40373	W	20031218		

OS MARPAT 141:123628

L24 ANSWER 12 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of imidazoquinolinesulfonamides as inducers of cytokine biosynthesis.

GI



I

AB Title compds. [I; R1 = alkyl-NR3SO2XR4, alkenyl-NR3SO2XR4; X = bond, R5; R4 = (substituted) aryl, heteroaryl, heterocyclyl, alkyl, alkenyl; R2 = H, (substituted) alkyl, alkenyl, aryl, heteroaryl, alkyl-O-alkyl, alkyl-O-alkenyl; R3 = H, alkyl; R5 = H, alkyl; R4R5 = atoms to form a 3-7 membered (substituted) heterocyclyl; n = 0-4; R = alkyl, alkoxy, halo, CF3], were prepared Thus, a stirred solution of 4-chloro-3-nitroquinoline in

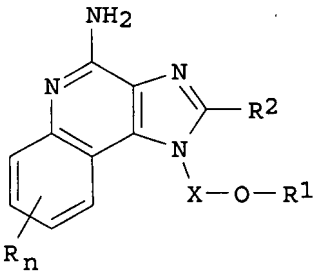
CH2Cl2 was treated with Et3N and 1,2-diamino-2-methylpropane to give 2-methyl-N1-(3-nitroquinolin-4-yl)propane-1,2-diamine. A solution of the latter in THF was cooled to 0° and treated with a 1 N NaOH solution of di-tert-Bu dicarbonate under rapid stirring followed by warming to ambient temperature and stirring overnight; addnl. di-tert-Bu dicarbonate was added and stirring was continued for 3 d. to give tert-Bu 1,1-dimethyl-2-[(3-nitroquinolin-4-yl)amino]ethylcarbamate. This in PhMe was treated with Pt/C and shaken under H2 for 6 h to give tert-Bu 2-(3-aminoquinolin-4-yl)-1,1-dimethylethylcarbamate. The aminoquinoline in CH2Cl2 was cooled to 0° and treated with Et3N and ethoxyacetyl chloride to give a syrup which was refluxed overnight with Et3N in EtOH to give tert-Bu 2-[2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl]-1,1-dimethylethylcarbamate. The imidazoquinoline in CH2Cl2 was treated with 3-chloroperoxybenzoic acid and stirred 2 h to give tert-Bu 2-[2-(ethoxymethyl)-5-oxido-1H-imidazo[4,5-c]quinolin-1-yl]-1,1-dimethylethylcarbamate. The latter in 1,2-dichloroethane was heated to 70° and treated with concentrated NH4OH; p-toluenesulfonyl chloride was added and the reaction mixture was heated in a sealed tube for 2 h to give tert-Bu 2-[4-amino-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl]-1,1-dimethylethylcarbamate . This was refluxed in EtOH containing HCl for 2 h to give 1-(2-amino-2-methylpropyl)-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-4-amine. 1-(2-Amino-2-methylpropyl)-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-4-amine in CH2Cl2 at 0° was treated with Et3N and MeSO2Cl and the reaction was allowed to warm to ambient temperature overnight to give N-[2-[4-amino-2-(ethoxymethyl)-1H-imidazo[4,5-c]quinolin-1-yl]-1,1-dimethylethyl]methanesulfonamide (claimed compound). I induced interferon in an in vitro human blood cell system at lowest effective concns. of 0.0001-10 μM.

AN 2004:33981 HCAPLUS <<LOGINID::20070510>>
DN 140:94043
TI Preparation of imidazoquinolinesulfonamides as inducers of cytokine biosynthesis.
IN Griesgraber, George W.
PA 3M Innovative Properties Company, USA
SO U.S., 86 pp., Cont. of U.S. Ser. No. 27,273, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6677349	B1	20040113	US 2003-425054	20030428
	US 2004106638	A1	20040603	US 2003-669051	20030923
	US 6924293	B2	20050802		
	US 2004132762	A1	20040708	US 2003-734306	20031212
	US 6888000	B2	20050503		
	US 2005197358	A1	20050908	US 2005-101369	20050407
	US 7199131	B2	20070403		
PRAI	US 2001-27273	B1	20011221		
	US 2003-425054	A1	20030428		
	US 2003-669051	A1	20030923		

OS MARPAT 140:94043
RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 13 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of aryl ether substituted imidazoquinolines as immune response modifiers
GI



I

AB The title compds. [I; X = (CH2)2, CHEtCH2, etc.; R1 = alkenyl, aryl, R4-aryl; R2 = H, alkyl, alkenyl, etc.; R4 = alkyl, alkenyl which may be interrupted by one or more O atoms; R3 = H, alkyl; n = 0-4; R = alkyl, alkoxy, OH, etc.] that contain ether and aryl or alkenyl functionality at the 1-position, and are useful as immune response modifiers, were prepared E.g., a multi-step synthesis of I [X = (CH2)2; R1 = CH2C.tplbond.CH; R2 = H; n = 0] which showed the lowest effective concentration of 0.12 μM and 1.11 μM to induce biosynthesis of interferon α and TNFα in human cells, resp., was given. The compds. I can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases. The pharmaceutical composition comprising the compound I is claimed.

AN 2003:892446 HCAPLUS <<LOGINID::20070510>>
DN 139:364934

TI Preparation of aryl ether substituted imidazoquinolines as immune response modifiers

IN Heppner, Philip D.; Charles, Leslie J.; Dellaria, Joseph F.; Merrill, Bryon A.; Mickelson, John W.
PA 3M Innovative Properties Co., USA

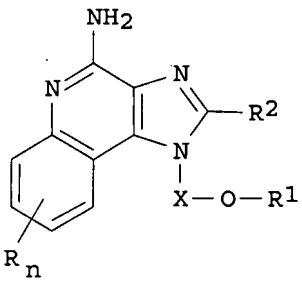
SO U.S. Pat. Appl. Publ., 97 pp., Cont.-in-part of U.S. Ser. No. 13,202.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003212092	A1	20031113	US 2002-165750	20020607
	US 6677348	B2	20040113		
	US 2003212091	A1	20031113	US 2001-13202	20011206
	US 6670372	B2	20031230		
	EP 1541572	A1	20050615	EP 2005-4019	20011206
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, CY, TR				
	US 2004072858	A1	20040415	US 2003-675833	20030930
	US 2004106640	A1	20040603	US 2003-696753	20031029
	US 6953804	B2	20051011		
	US 2004138248	A1	20040715	US 2003-696108	20031029
	US 6989389	B2	20060124		
	US 2005148619	A1	20050707	US 2005-69033	20050228
	US 7132429	B2	20061107		
	US 2005209267	A1	20050922	US 2005-132537	20050519
	US 2005234088	A1	20051020	US 2005-132900	20050519
PRAI	US 2000-254218P	P	20001208		
	US 2001-13202	A2	20011206		
	EP 2001-987297	A3	20011206		
	US 2001-11921	A1	20011206		
	US 2001-12599	A1	20011206		
	US 2001-13059	A1	20011206		
	US 2001-13060	A1	20011206		
	US 2002-165750	A1	20020607		

	US 2003-680989	A3	20031007
	US 2003-696476	A3	20031029
	US 2003-696684	A3	20031029

OS MARPAT 139:364934
RE.CNT 60 THERE ARE 60 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 14 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of amido ether substituted imidazoquinolines as immune response modifiers
GI



I

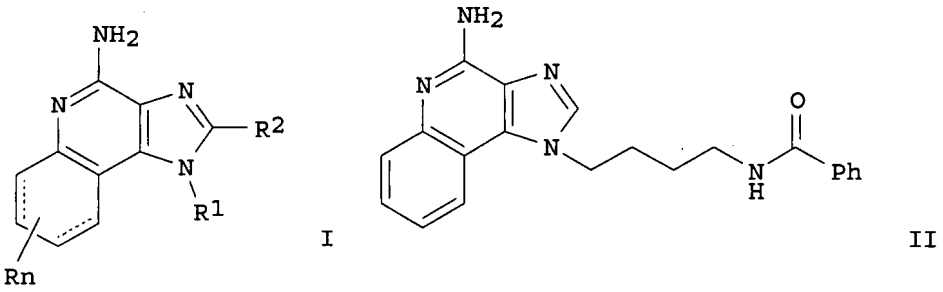
AB The title compds. [I; X = (CH2)2, CH(Et)CH2, etc.; R1 = (CH2)4CONMePh, (CH2)2NHCO(cyclohexyl), (CH2)2NHCO(1-naphthyl), etc.; R2 = H, alkyl, alkenyl, etc.; R = alkyl, alkoxy, OH, halo, CF3; n = 0-4] and their pharmaceutically acceptable salts that contain ether and amide functionality at the 1-position, and are useful as immune response modifiers, were prepared Thus, reacting 2-(1H-imidazo[4,5-c]quinolin-1-yl)ethanol with 5-bromo-N-methyl-N-phenylpentamide followed by treatment of the resulting N-oxide with trichloroacetyl isocyanate in CH2Cl2, and then treating the intermediate with NaOMe in MeOH afforded I [X = (CH2)2; R1 = (CH2)4CONMePh; R2 = H; n = 0] which showed interferon α induction in human cells at 3.33 μM. The compds. I and compns. comprising I can induce the biosynthesis of various cytokines, and are useful in the treatment of a variety of conditions, including viral diseases and neoplastic diseases.
AN 2003:777397 HCAPLUS <<LOGINID::20070510>>
DN 139:292250
TI Preparation of amido ether substituted imidazoquinolines as immune response modifiers
IN Crooks, Stephen L.; Griesgraber, George W.; Heppner, Philip D.; Merrill, Bryon A.
PA 3M Innovative Properties Co., USA
SO U.S. Pat. Appl. Publ., 50 pp., Cont.-in-part of U.S. Ser. No. 11,670.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003187016	A1	20031002	US 2002-165449	20020607
	US 6664265	B2	20031216		
	US 2003096835	A1	20030522	US 2001-11670	20011206
	US 6660747	B2	20031209		
	EP 1541572	A1	20050615	EP 2005-4019	20011206
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, CY, TR				
	US 2004072858	A1	20040415	US 2003-675833	20030930
	US 2004067975	A1	20040408	US 2003-681711	20031007

	US 2004157874	A1	20040812	US 2003-681457	20031007
	US 2005143413	A1	20050630	US 2005-68207	20050228
	US 7115622	B2	20061003		
	US 2005148619	A1	20050707	US 2005-69033	20050228
	US 7132429	B2	20061107		
	US 2005209267	A1	20050922	US 2005-132537	20050519
	US 2005234088	A1	20051020	US 2005-132900	20050519
PRAI	US 2000-254218P	P	20001208		
	US 2001-11670	A2	20011206		
	EP 2001-987297	A3	20011206		
	US 2001-11921	A1	20011206		
	US 2001-12599	A1	20011206		
	US 2001-13059	A1	20011206		
	US 2001-13060	A1	20011206		
	US 2002-165449	A1	20020607		
	US 2003-680989	A3	20031007		
	US 2003-681711	A1	20031007		
	US 2003-696476	A3	20031029		
	US 2003-696684	A3	20031029		

OS MARPAT 139:292250

L24 ANSWER 15 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of amidoimidazo[4,5-c]quinolines as immune response modifiers
GI



AB Title compds. I [wherein R1 = alkyl-NR3COR4; R3 = independently H, alkyl or (un)substituted alkyl(hetero)aryl; R4 = alkyl or (un)substituted (hetero)aryl; R2 = H, alkenyl, (un)substituted alkyl or (hetero)aryl, etc.; R = independently alkyl, alkoxy, halo, CF3; n = 0-4; and their pharmaceutically acceptable salts] were prepared as immune response modifiers. For example, II was prepared by acylation of 1-(4-aminobutyl)-1H-imidazo[4,5-c]quinolin-4-amine with benzoyl chloride in pyridine. II induced interferon α and TNFα at concns. of 0.37 μM and 10 μM, resp., in human cells. Thus, I and their pharmaceutical compns. are useful for the treatment of a variety of conditions including viral diseases and neoplastic diseases (no data).

AN 2003:590833 HCAPLUS <<LOGINID::20070510>>
DN 139:149629
TI Preparation of amidoimidazo[4,5-c]quinolines as immune response modifiers
IN Coleman, Patrick L.; Crooks, Stephen L.; Griesgraber, George W.; Lindstrom, Kyle J.; Merrill, Bryon A.; Rice, Michael J.
PA 3M Innovative Properties Co., USA
SO U.S. Pat. Appl. Publ., 85 pp., Cont.-in-part of U.S. 6,451,810.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 7

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	US 2003144283	A1	20030731	US 2001-27218	20011221
	US 6756382	B2	20040629		
	US 6451810	B1	20020917	US 2000-589580	20000607
	TR 200103574	T2	20020821	TR 2001-3574	20000608
	HU 200202254	A2	20021028	HU 2002-2254	20000608
	EP 1438958	A1	20040721	EP 2004-4588	20000608
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, CY				
	EP 1642580	A1	20060405	EP 2005-21837	20000608
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	AT 335479	T	20060915	AT 2000-950215	20000608
	ZA 2001009854	A	20030228	ZA 2001-9854	20011129
	ZA 2001009857	A	20030228	ZA 2001-9857	20011129
	ZA 2001009861	A	20030228	ZA 2001-9861	20011129
	US 2004029877	A1	20040212	US 2001-27272	20011221
	US 6800624	B2	20041005		
	US 2004204438	A1	20041014	US 2004-826836	20040416
	US 7030131	B2	20060418		
	US 2004229897	A1	20041118	US 2004-848893	20040519
	US 2006106052	A1	20060518	US 2006-275699	20060125
PRAI	US 1999-138365P	P	19990610		
	US 2000-589580	A2	20000607		
	US 2000-589216	A	20000607		
	US 2000-589236	A	20000607		
	EP 2000-938205	A3	20000608		
	EP 2000-938211	A3	20000608		
	US 2001-166321	A1	20010615		
	US 2001-27218	A1	20011221		
	US 2001-27272	A1	20011221		
	US 2004-826836	A3	20040416		

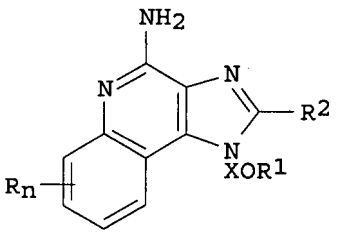
OS MARPAT 139:149629

RE.CNT 61 THERE ARE 61 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 16 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of sulfonamidoalkoxyalkylimidazoquinolines as immune response modulators.

GI



I

AB Title compds. [I; X = CHR5, CHR5, CHR5, R1 = R4NR3SO2R6A, R4NR3SOR7, R4NR3SO2NR5R6A, R4NR3SO2NH2; A = alkyl, alkenyl, aryl, heteroaryl, heterocyclyl; R2 = H, (substituted) alkyl, alkenyl, aryl, heteroaryl, heterocyclyl, alkyl-Y-alkyl, alkyl-Y-alkenyl, alkyl-Y-aryl; Y = O, S(O)0-2; R3 = H, alkyl, arylalkyl; R4 = alkyl, alkenyl, which may be interrupted by ≥1 O; R3R4 form a ring; R5 = H, alkyl, alkenyl; R6 = bond, alkyl, alkenyl, which may be interrupted by ≥1 O; R7 = alkyl; R3R7 form a ring; n = 0-4; R = alkyl, alkoxy, OH, halo, CF3], were prepared Thus, tert-Bu 2-[2-[(3-aminoquinolin-4-yl)amino]ethoxy]ethylcarbamate (preparation given) in CH2Cl2 was cooled to 0° and treated with Et3N and methoxypropionyl chloride; The reaction was then warmed to room temperature and

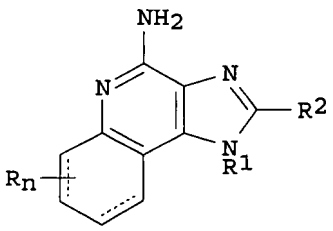
stirring was continued for 1 h to give tert-Bu 2-[2-[2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethylcarbamate. This was converted to N-[2-[2-[4-amino-2-(2-methoxyethyl)-1H-imidazo[4,5-c]quinolin-1-yl]ethoxy]ethyl]methanesulfonamide in several steps. I showed interferon induction in human cells with lowest effective concns. of 0.0001-1 μM.

AN 2003:570648 HCAPLUS <<LOGINID::20070510>>
DN 139:133563
TI Preparation of sulfonamidoalkoxyalkylimidazoquinolines as immune response modulators.
IN Crooks, Stephen L.; Griesgraber, George W.; Heppner, Philip D.; Merrill, Bryon A.; Roberts, Ralph R.; Wei, Ai-Ping
PA 3M Innovative Properties Co., USA
SO U.S. Pat. Appl. Publ., 46 pp., Cont.-in-part of U.S. Ser. No. 12,599.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2003139441	A1	20030724	US 2002-165443	20020607
	US 6677347	B2	20040113		
	US 2002193396	A1	20021219	US 2001-12599	20011206
	US 6683088	B2	20040127		
	EP 1541572	A1	20050615	EP 2005-4019	20011206
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, CY, TR				
	US 2004072858	A1	20040415	US 2003-675833	20030930
	US 2004092545	A1	20040513	US 2003-696476	20031029
	US 2004097542	A1	20040520	US 2003-696478	20031029
	US 2005148619	A1	20050707	US 2005-69033	20050228
	US 7132429	B2	20061107		
	US 2005148620	A1	20050707	US 2005-69035	20050228
	US 2005209267	A1	20050922	US 2005-132537	20050519
	US 2005234088	A1	20051020	US 2005-132900	20050519
PRAI	US 2000-254218P	P	20001208		
	US 2001-12599	A2	20011206		
	EP 2001-987297	A3	20011206		
	US 2001-11921	A1	20011206		
	US 2001-13059	A1	20011206		
	US 2001-13060	A1	20011206		
	US 2002-165443	A1	20020607		
	US 2003-680989	A3	20031007		
	US 2003-696476	A3	20031029		
	US 2003-696478	A3	20031029		
	US 2003-696684	A3	20031029		

OS MARPAT 139:133563
RE.CNT 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 18 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of imidazoquinolinamines as immune response modifiers.
GI



I

AB Title compds. [I; R1 = ANR3CYNR5XR4; A = alkylene, alkenylene; Y = O, S; X = bond, CO, SO2; R3 = H, alkyl; R4 = (substituted) aryl, heteroaryl, alkyl, etc.; R5 = H, alkyl; R4R5 = atoms to form 3-7 membered (un)substituted heterocyclic ring; R2 = H, alkyl,aryl, etc.; R = alkyl, alkoxy, halo, CF3; n = 0-4], were prepared Thus, reaction of 4-morpholinecarbonyl chloride with 1-(4-aminobutyl)-1H-imidazo[4,5-c]quinolin-4-amine in pyridine afforded N4-[4-[4-amino-1H-imidazo[4,5-c]quinolin-1-yl]butyl]-4-morpholinecarboxamide which induced interferon-α biosynthesis in human cells at a lowest concentration of 3.33 μM.

AN 2003:429098 HCAPLUS <<LOGINID::20070510>>
DN 139:6873

TI Preparation of imidazoquinolinamines as immune response modifiers.

IN Crooks, Stephen L.; Griesgraber, George W.; Lindstrom, Kyle J.; Merrill, Bryon A.; Rice, Michael J.
PA 3M Innovative Properties Company, USA

SO U.S., 66 pp., Cont.-in-part of U.S. 6,541,485.
CODEN: USXXAM
DT Patent
LA English

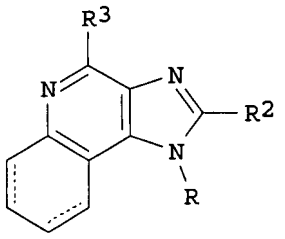
FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6573273	B1	20030603	US 2001-28255	20011221
	US 6541485	B1	20030401	US 2000-589236	20000607
	TR 200103576	T2	20020621	TR 2001-3576	20000608
	EP 1438958	A1	20040721	EP 2004-4588	20000608
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, CY				
	EP 1642580	A1	20060405	EP 2005-21837	20000608
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	AT 337007	T	20060915	AT 2000-938205	20000608
	ZA 2001009854	A	20030228	ZA 2001-9854	20011129
	ZA 2001009857	A	20030228	ZA 2001-9857	20011129
	ZA 2001009861	A	20030228	ZA 2001-9861	20011129
	US 2004029877	A1	20040212	US 2001-27272	20011221
	US 6800624	B2	20041005		
	US 2004014754	A1	20040122	US 2003-352604	20030128
	US 6780873	B2	20040824		
	US 2004019048	A1	20040129	US 2003-370800	20030220
	US 6784188	B2	20040831		
	US 2004167154	A1	20040826	US 2004-780379	20040217
	US 6897221	B2	20050524		
	US 2004204438	A1	20041014	US 2004-826836	20040416
	US 7030131	B2	20060418		
	US 2005131009	A1	20050616	US 2005-38434	20050120
	US 7157453	B2	20070102		
	US 2006106052	A1	20060518	US 2006-275699	20060125
PRAI	US 1999-138365P	P	19990610		
	US 2000-589236	A2	20000607		
	US 2000-589216	A	20000607		
	EP 2000-938205	A3	20000608		
	EP 2000-938211	A3	20000608		
	US 2001-166321	A1	20010615		
	US 2001-27272	A1	20011221		
	US 2001-28255	A1	20011221		
	US 2003-370800	A1	20030220		
	US 2004-780379	A1	20040217		
	US 2004-826836	A3	20040416		

OS MARPAT 139:6873
RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L24 ANSWER 21 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of 1-(alkyl- or arylthioalkyl) imidazo[4,5-c]quinoline-4-amines and analogs as cytokine biosynthesis inducers
GI



I

AB Title compds. [(un)substituted I; R = Z2Z1R1; R1 = alk(en)yl, heterocyclyl, (hetero)aryl, etc.; R2 = H, alk(en)yl, heterocyclyl, (hetero)aryl, etc.; R3 = NH2; Z1 = SO0-2; Z2 = alkylene; dashed lines = optional addnl. bonds], useful as immune response modifiers, were prepared Thus, 4-chloro-3-nitroquinoline was aminated by H2N(CH2)4OH and O-protected product reduced to give, after cyclocondensation with BuC(OMe)3, I (R2 = Bu, dashed lines = bonds)[II; R = (CH2)4OSiCMe2CMe3, R3 = H] which was converted in 4 steps to II [R = (CH2)4SPh, R3 = NH2]. Data for biol. activity of I were given.
AN 2002:449683 HCAPLUS <<LOGINID::20070510>>
DN 137:20377
TI Preparation of 1-(alkyl- or arylthioalkyl) imidazo[4,5-c]quinoline-4-amines and analogs as cytokine biosynthesis inducers
IN Dellaria, Joseph F.; Merrill, Bryon A.; Radmer, Matthew R.
PA 3M Innovative Properties Company, USA
SO PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 11

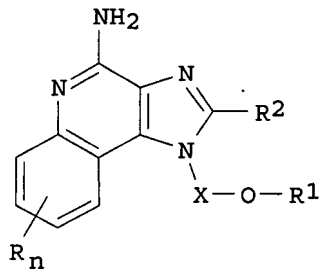
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046192	A2	20020613	WO 2001-US46697	20011206
	WO 2002046192	A3	20030213		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2436846	A1	20020613	CA 2001-2436846	20011206
	AU 200239530	A	20020618	AU 2002-39530	20011206
	US 2003065005	A1	20030403	US 2001-11921	20011206
	US 6664260	B2	20031216		
	EP 1341791	A2	20030910	EP 2001-987297	20011206
	EP 1341791	B1	20050525		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	EE 200300275	A	20031015	EE 2003-275	20011206
	JP 2004515500	T	20040527	JP 2002-547929	20011206
	HU 200400710	A2	20040628	HU 2004-710	20011206

	CN 1511155	A	20040707	CN 2001-820159	20011206
	CN 1537111	A	20041013	CN 2001-819907	20011206
	NZ 526087	A	20041126	NZ 2001-526087	20011206
	BR 2001016026	A	20041221	BR 2001-16026	20011206
	AT 296301	T	20050615	AT 2001-987297	20011206
	EP 1541572	A1	20050615	EP 2005-4019	20011206
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, CY, TR				
	PT 1341791	T	20050930	PT 2001-987297	20011206
	CZ 295848	B6	20051116	CZ 2003-1560	20011206
	ES 2242782	T3	20051116	ES 2001-1987297	20011206
	AT 319711	T	20060315	AT 2001-992018	20011206
	ES 2260323	T3	20061101	ES 2001-1992018	20011206
	AT 353895	T	20070315	AT 2001-987283	20011206
	TW 584633	B	20040421	TW 2001-90130401	20011207
	TW 222972	B	20041101	TW 2001-90130402	20011207
	NO 2003002595	A	20030606	NO 2003-2595	20030606
	IN 2003CN00894	A	20050422	IN 2003-CN894	20030606
	ZA 2003005270	A	20040826	ZA 2003-5270	20030708
	ZA 2003005271	A	20041008	ZA 2003-5271	20030708
	ZA 2003005273	A	20041008	ZA 2003-5273	20030708
	ZA 2003005275	A	20041008	ZA 2003-5275	20030708
	ZA 2003005274	A	20041018	ZA 2003-5274	20030708
	ZA 2003005272	A	20041027	ZA 2003-5272	20030708
	US 2004072858	A1	20040415	US 2003-675833	20030930
	US 2005148619	A1	20050707	US 2005-69033	20050228
	US 7132429	B2	20061107		
	US 2005209267	A1	20050922	US 2005-132537	20050519
	US 2005234088	A1	20051020	US 2005-132900	20050519
PRAI	US 2000-254218P	P	20001208		
	EP 2001-987297	A3	20011206		
	US 2001-11921	A1	20011206		
	US 2001-12599	A1	20011206		
	US 2001-13059	A1	20011206		
	US 2001-13060	A1	20011206		
	WO 2001-US46697	W	20011206		
	US 2003-680989	A3	20031007		
	US 2003-696476	A3	20031029		
	US 2003-696684	A3	20031029		
OS	MARPAT 137:20377				

L24 ANSWER 22 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of urea substituted imidazoquinoline ethers as immune response modifiers

GI



I

AB The title compds. [I; X = (CH2)2, CHEtCH2, etc.; R1 = R4NR8CR3NR5ZR6alkyl,

R4NR8CR3NR5ZR6aryl, etc.; R2 = H, alkyl, aryl, etc.; R3 = O, S; R4 = alkylene or alkenylene which may be interrupted by one or more O atoms; R5 = H, alkyl; R6 = a bond, alkylene or alkenylene which may be interrupted by one or more O atoms; R8 = H, alkyl, aralkyl; or R4 and R8 can join together to form a ring; Z = a bond, CO, SO2; n = 0-4; R = alkyl, alkoxy, OH, etc.] that contain ether and urea functionality at the 1-position, and are useful as immune response modifiers, were prepared E.g., a multi-step synthesis of the urea I [X = (CH2)2; R1 = (CH2)2NMeCONHPh; R2 = (CH2)2OMe; n = 0] which showed the lowest concentration of 0.01 μM and 0.37 μM to induce interferon α and TNFα, resp., was prepared The compds. I can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

AN 2002:449682 HCAPLUS <<LOGINID::20070510>>
DN 137:33298

TI Preparation of urea substituted imidazoquinoline ethers as immune response modifiers

IN Crooks, Stephen L.; Griesgraber, George W.; Heppner, Philip D.; Merrill, Bryon A.
PA 3M Innovative Properties Company, USA

SO PCT Int. Appl., 71 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046191	A2	20020613	WO 2001-US46696	20011206
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	US 2003065005	A1	20030403	US 2001-11921	20011206
	US 6664260	B2	20031216		
	EP 1343784	A2	20030917	EP 2001-992018	20011206
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	CN 1511155	A	20040707	CN 2001-820159	20011206
	JP 2004521092	T	20040715	JP 2002-547928	20011206
	CN 1537111	A	20041013	CN 2001-819907	20011206
	NZ 526088	A	20041224	NZ 2001-526088	20011206
	EP 1541572	A1	20050615	EP 2005-4019	20011206
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, CY, TR				
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	PT 1341791	T	20050930	PT 2001-987297	20011206
	CZ 295848	B6	20051116	CZ 2003-1560	20011206
	ES 2242782	T3	20051116	ES 2001-1987297	20011206
	AT 319711	T	20060315	AT 2001-992018	20011206
	ES 2260323	T3	20061101	ES 2001-1992018	20011206
	HU 200600605	A2	20061128	HU 2006-605	20011206
	AT 353895	T	20070315	AT 2001-987283	20011206
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	TW 222972	B	20041101	TW 2001-90130402	20011207

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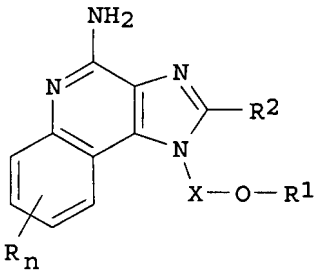
	ZA 2003005270	A	20040826	ZA 2003-5270	20030708
	ZA 2003005271	A	20041008	ZA 2003-5271	20030708
	ZA 2003005273	A	20041008	ZA 2003-5273	20030708
	ZA 2003005275	A	20041008	ZA 2003-5275	20030708
	ZA 2003005274	A	20041018	ZA 2003-5274	20030708
	ZA 2003005272	A	20041027	ZA 2003-5272	20030708
	US 2004072858	A1	20040415	US 2003-675833	20030930
	HK 1069166	A1	20061124	HK 2005-100647	20050125
	US 2005148619	A1	20050707	US 2005-69033	20050228
	US 7132429	B2	20061107		
	US 2005209267	A1	20050922	US 2005-132537	20050519
	US 2005234088	A1	20051020	US 2005-132900	20050519
PRAI	US 2000-254218P	P	20001208		
	EP 2001-987297	A3	20011206		
	US 2001-11921	A1	20011206		
	US 2001-12599	A1	20011206		
	US 2001-13059	A1	20011206		
	US 2001-13060	A1	20011206		
	WO 2001-US46696	W	20011206		
	US 2003-680989	A3	20031007		
	US 2003-696476	A3	20031029		
	US 2003-696684	A3	20031029		

OS MARPAT 137:33298

L24 ANSWER 23 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of sulfonamido ether substituted imidazoquinolines as immune response modifiers

GI



I

AB The title compds. [I; X = (CH2)2, (CH2)3, CHEtCH2, etc.; R1 = R4NR3SO2R6alkyl, R4NR3SO2R6aryl, etc.; R2 = H, alkyl, alkenyl, etc.; R3 = H, alkyl, aralkyl; R4 = alkylene or alkenylene interrupted by one or more O atoms; or R3R4 can join together to form a ring; R6 = a bond, alkylene or alkenylene which may be interrupted by one or more O atoms; n = 0-4; R = alkyl, alkoxy, OH, etc.] that contain substituted amine functionality at the 1-position, and are useful as immune response modifiers, were prepared E.g., a multi-step synthesis of I [X = (CH2)2; R1 = (CH2)2NMeSO2Me; R2 = (CH2)2OMe; n = 0] which showed the lowest concentration of 0.01 μM and 0.12 μM to induce interferon α and TNFα, resp., was given. The compds. I can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

AN 2002:449681 HCAPLUS <<LOGINID::20070510>>

DN 137:33297

TI Preparation of sulfonamido ether substituted imidazoquinolines as immune response modifiers

IN Crooks, Stephen L.; Greisgraber, George W.; Heppner, Philip D.; Merrill,

Bryon A.; Roberts, Ralph R.; Wei, Ai-Ping
PA 3M Innovative Properties Company, USA
SO PCT Int. Appl., 74 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046190	A2	20020613	WO 2001-US46582	20011206
	WO 2002046190	A3	20030717		
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	AU 200239517	A	20020618	AU 2002-39517	20011206
	US 2003065005	A1	20030403	US 2001-11921	20011206
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	EP 1341790	A2	20030910	EP 2001-987283	20011206
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	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
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	CN 1511155	A	20040707	CN 2001-820159	20011206
	JP 2004529078	T	20040924	JP 2002-547927	20011206
	CN 1537111	A	20041013	CN 2001-819907	20011206
	EP 1541572	A1	20050615	EP 2005-4019	20011206
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, LT, LV, FI, CY, TR				
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	CZ 295848	B6	20051116	CZ 2003-1560	20011206
	ES 2242782	T3	20051116	ES 2001-1987297	20011206
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	HU 200600600	A2	20061128	HU 2006-600	20011206
	AT 353895	T	20070315	AT 2001-987283	20011206
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	TW 222972	B	20041101	TW 2001-90130402	20011207
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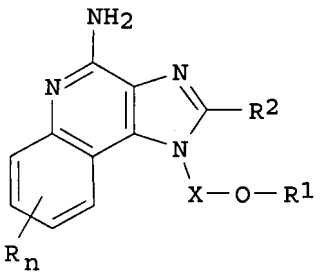
	ZA 2003005271	A	20041008	ZA 2003-5271	20030708
	ZA 2003005273	A	20041008	ZA 2003-5273	20030708
	ZA 2003005275	A	20041008	ZA 2003-5275	20030708
	ZA 2003005274	A	20041018	ZA 2003-5274	20030708
	ZA 2003005272	A	20041027	ZA 2003-5272	20030708
	US 2004072858	A1	20040415	US 2003-675833	20030930
	HK 1066005	A1	20060825	HK 2004-108904	20041111
	US 2005148619	A1	20050707	US 2005-69033	20050228
	US 7132429	B2	20061107		
	US 2005209267	A1	20050922	US 2005-132537	20050519
	US 2005234088	A1	20051020	US 2005-132900	20050519
PRAI	US 2000-254218P	P	20001208		
	EP 2001-987297	A3	20011206		
	US 2001-11921	A1	20011206		

	US 2001-12599	A1	20011206
	US 2001-13059	A1	20011206
	US 2001-13060	A1	20011206
	WO 2001-US46582	W	20011206
	US 2003-680989	A3	20031007
	US 2003-696476	A3	20031029
	US 2003-696684	A3	20031029

OS MARPAT 137:33297

L24 ANSWER 24 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of aryl ether substituted imidazoquinolines as immune response modifiers
GI



I

AB The title compds. [I; X = (CH2)2, CHEtCH2, etc.; R1 = alkenyl, aryl, R4-aryl; R2 = H, alkyl, alkenyl, etc.; R4 = alkyl, alkenyl which may be interrupted by one or more O atoms; R3 = H, alkyl; n = 0-4; R = alkyl, alkoxy, OH, etc.] that contain ether and aryl or alkenyl functionality at the 1-position, and are useful as immune response modifiers, were prepared E.g., a multi-step synthesis of I [X = (CH2)2; R1 = CH2C.tplbond.CH; R2 = H; n = 0] which showed the lowest concentration of 0.12 μM and 1.11 μM to induce interferon α and TNFα, resp., was given. The compds. I can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

AN 2002:449680 HCAPLUS <<LOGINID::20070510>>
DN 137:33296
TI Preparation of aryl ether substituted imidazoquinolines as immune response modifiers
IN Charles, Leslie J.; Dellaria, Joseph F.; Heppner, Philip D.; Merrill, Bryon A.; Mickelson, John W.
PA 3M Innovative Properties Company, USA
SO PCT Int. Appl., 184 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 11

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046189	A2	20020613	WO 2001-US46581	20011206
	WO 2002046189	A3	20030320		

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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,

BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

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	AU 200239516	A	20020618	AU 2002-39516	20011206
	US 2003065005	A1	20030403	US 2001-11921	20011206
	US 6664260	B2	20031216		
	EP 1341789	A2	20030910	EP 2001-987282	20011206
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	ZA 2003005272	A	20041027	ZA 2003-5272	20030708
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	US 2001-13060	A1	20011206		
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	US 2003-696684	A3	20031029		

OS MARPAT 137:33296

L24 ANSWER 25 OF 26 HCAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of amido ether substituted imidazoquinolines as immune response modifiers

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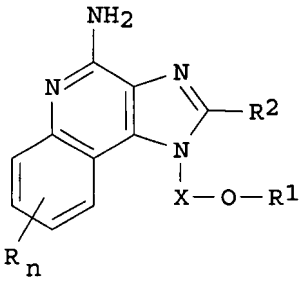

I

AB The title compds. [I; X = (CH2)2, CH(Et)CH2, etc.; R1 = (CH2)4CONMePh, (CH2)2NHCO(cyclohexyl), (CH2)2NHCO(1-naphthyl), etc.; R2 = H, alkyl, alkenyl, etc.; R = alkyl, alkoxy, OH, halo, CF3; n = 0-4] and their pharmaceutically acceptable salts that contain ether and amide functionality at the 1-position, and are useful as immune response modifiers, were prepared Thus, reacting 2-(1H-imidazo[4,5-c]quinolin-1-yl)ethanol with 5-bromo-N-methyl-N-phenylpentamide followed by treatment of the resulting N-oxide product with trichloroacetyl isocyanate in CH2Cl2, and then treating the intermediate with NaOMe/MeOH afforded I [X = (CH2)2; R1 = (CH2)4CONMePh; R2 = H; n = 0] which showed interferon α induction at 3.33 μM. The compds. I can induce the biosynthesis of various cytokines, and are useful in the treatment of a variety of conditions, including viral diseases and neoplastic diseases.

AN 2002:449679 HCAPLUS <<LOGINID::20070510>>
DN 137:33295

TI Preparation of amido ether substituted imidazoquinolines as immune response modifiers

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002046188	A2	20020613	WO 2001-US46359	20011206
	WO 2002046188	A3	20030313		
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TI Preparation of urea substituted imidazoquinolines as immune response modifiers

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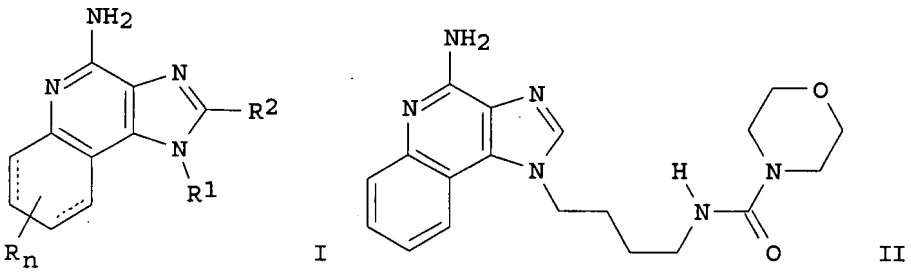

AB The title compds. [I; R1 = alkylNR3CYNR5XR4, alkenylNR3CYNR5XR4 (wherein Y = O, S; X = a bond, CO, SO2; R3 = H, alkyl; R4 = (un)substituted aryl, heteroaryl, alkyl, etc.; R5 = H, alkyl; R4 and R5 can combine to form 3-7 membered (un)substituted heterocyclic ring); R2 = H, alkyl,aryl, etc.; R = alkyl, alkoxy, halo, CF3; n = 0-4], useful as immune response modifiers, were prepared Thus, reacting 4-morpholinecarbonyl chloride with

1-(4-aminobutyl)-1H-imidazo[4,5-c]quinolin-4-amine in pyridine afforded II which induced interferon α biosynthesis in human cells at 3.33 μM. The compds. I can induce the biosynthesis of various cytokines such as interferon α and TNFα (data given), and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

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FAN.CNT 7

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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OS   MARPAT 134:56666
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